

**B&K COMPONENTS, LTD.**

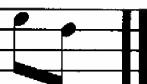
**ST-120**

***Power Amplifier***

***Operation Manual***



***ST-120 power amplifier***



# ST-120 Owner's Manual

## Introduction

Thank for purchasing a B&K Components Ltd. ST-120 power amplifier. Your ST-120 carries many useful features, including the same high quality components that are found in our other power amplifiers. The ST-120 is manufactured with 1% metal film resistors and a toroidal transformer for efficient power supply operation. This allows the ST-120 to operate at full power with a square wave signal and the most demanding digital audio signals. To reduce noise, goldplated input and output connectors are used. Optional balanced line inputs can also be ordered to further lower common noise interference.

The chassis, constructed of heavy gauge steel, and a 3/16" aluminium faceplate provide maximum structural integrity. The ST-120 is manufactured for dependability and will provide many years of listening pleasure.

We encourage you to read this operation manual thoroughly to familiarize yourself with the ST-120 power amplifier.

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- Model ST-120
- Serial # .....
- Date of Purchase .....
- B&K Components, Ltd.
- 1971 Abbott Road
- Buffalo, NY 14218-3241
- (716) 822-8488 (716) 822-8306 Fax

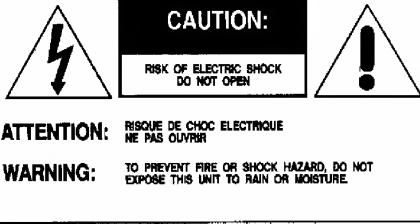
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## Safety Precautions

1. Read all instructions.
2. Keep all units well ventilated.
3. For extended periods of nonuse, unplug the unit from the power source.
4. Do not open the unit, there are no user serviceable parts inside. Contact your dealer or authorized service center for customer assistance.
5. Keep the unit away from liquids and direct sunlight.
6. Secure all connections and power cords. Keep power cords out of travel paths.

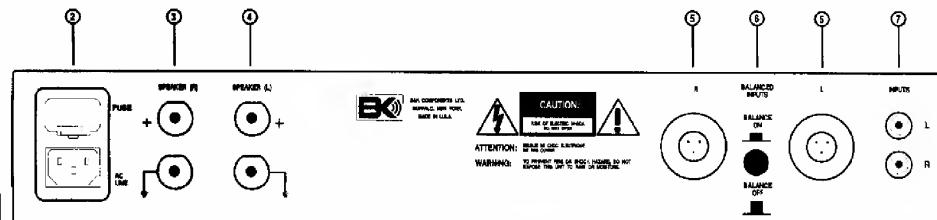
## Specifications of the ST-120 Power Amplifier

- Frequency Response ..... 5 Hz-45 kHz
- Damping Factor (50 Hz) ..... 100
- Input Sensitivity ..... .9 V
- Input Impedance (ohms) ..... 24.3k
- IM Distortion (SMPTE) ..... .09%
- Power Rating @ 8 ohms ..... 60 W
- Amperage (peak to peak) ..... 14
- Slew Rate ..... 14 v/us
- Dynamic Headroom ..... 1.4dB
- S/N (A-Weighted) ..... 95dB
- Specifications subject to change without notice.



BK10528V10

## ST-120 Front/Rear Panel Operation



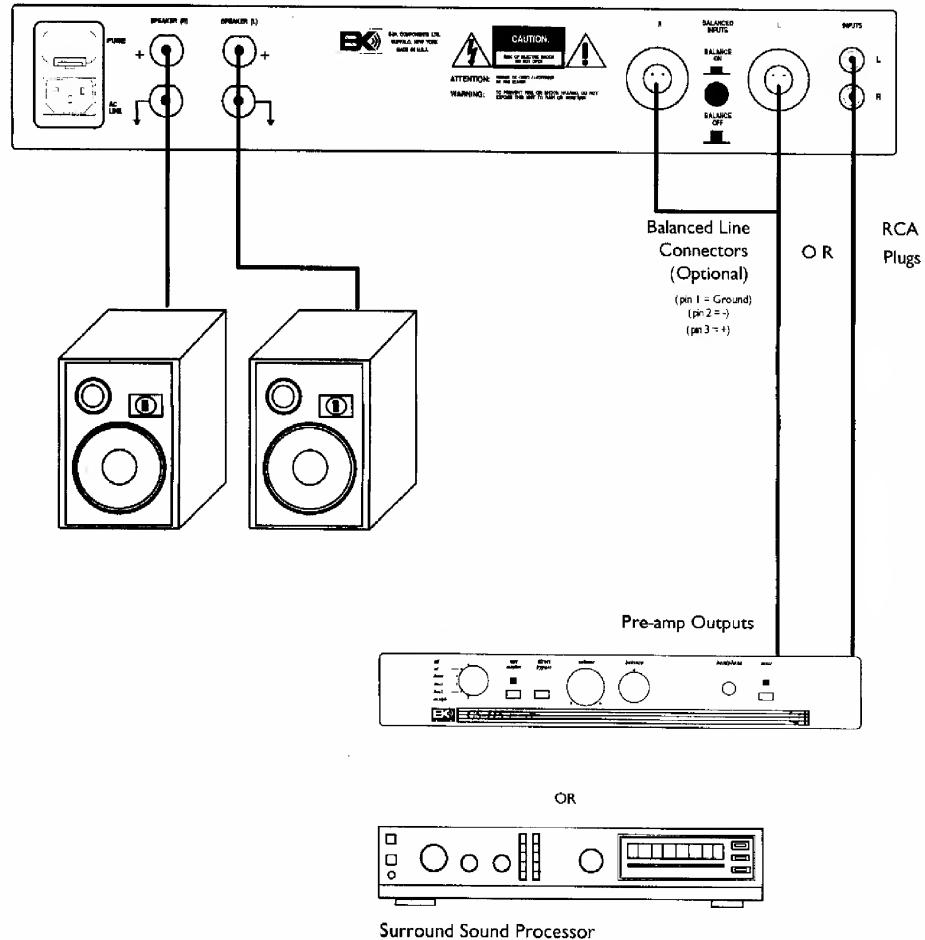
1. **MAIN POWER SWITCH** - The red LED (light) indicates the power status of the ST-120.
2. **POWER ENTRY MODULE** - The power cord is inserted into this module. The upper part of the module holds the 8 amp Slo-Blo fuse.
3. **RIGHT SPEAKER TERMINALS** - Connect the left speaker wires to these 5-way terminal connectors. Keep the twisted strands of bare wire to no more than 1/2 inch in length before inserting into the terminals. Be sure that the wire is seated firmly into the opening and the cap is twisted securely. Observe the polarity of the wires to the speaker (+ to +, and - to -). Be sure that no small exposed strands of wire are touching between the terminals. The impedance of the speakers should not be lower than 4 ohms.
4. **LEFT SPEAKER TERMINALS** - Same as above for the left speaker.
5. **LEFT AND RIGHT BALANCED LINE INPUT CONNECTORS (Optional)** - If your unit is configured with balanced (XLR) connectors, these are to be used for connecting to the preamplifier (pin 1 = ground, pin 2 = -, pin 3 = +). Balanced connectors and cables provide maximum reduction of common noise interference which can degrade clarity and low frequency accuracy. Proper balanced operation requires that the preamplifier be also equipped with balanced output connectors, consult your authorized dealer concerning this option.
6. **BALANCED INPUTS** - This switch must be depressed "in" to enable the balanced line inputs to be activated. Set the switch to the "out" position to use RCA connectors. Only one set of inputs may be used at one time.
7. **INPUTS** - These are line level input connectors (RCA) that are connected to the preamplifier outputs.  
A surround sound processor may be connected to these inputs.

\* note: When making connections to the back panel and to your audio components, always connect the right channel of one component to the right channel of the other component. Also make the connections with the plugs pushed all the way in and seated firmly.

\* note: Refer to "Making the Right Connections" for illustrated connections.



## Making the Right Connections





**B&K COMPONENTS, LTD.**

1971 Abbott Road, Buffalo, New York 14218-3241 NY: 716-822-8488 FAX: 716-822-8306

### **B&K Limited Warranty**

B&K Components, Ltd. (Warrantor) warrants your B&K equipment against all defects in material and workmanship for a period of three years from date of purchase. This warranty applies only to the original consumer purchaser and only to equipment used in normal residential use and service. Defective units will be either repaired or replaced (at the discretion of B&K Components, Ltd.) upon its being returned to the Warrantor at 1971 Abbott Rd., Buffalo, N.Y. 14218, postage prepaid, with a payment to cover the costs of return postage and handling.

This warranty shall not apply to any equipment which is found to have been improperly installed, fused, set-up, or used in any way not in accordance with instructions supplied with the equipment, or to have been modified, repaired or altered in any way without the expressed written consent of B&K Components, Ltd.

No implied warranty on this unit, created by state law, shall extend beyond the term of this warranty, and B&K Components, Ltd. shall not be liable for any incidental or consequential damages in the event of any defect in material or workmanship of the unit during the term of this warranty or thereafter. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions may not apply to you.

No agent, representative, dealer or employee of the company has the authority to increase or alter the obligations or terms of this warranty.

This warranty gives you specific legal rights; you may also have other rights which vary from state to state.

**RETURN AUTHORIZATION:** Please note that the return of any product to B&K Components, Ltd. for the purpose of warranty repair, service or other reason requires a *Return Authorization (RA)* to be issued by B&K Components, Ltd. prior to return shipment. The RA may be requested by calling 1-800-543-5252 (NY: 716-822-8488) between 8:30 AM and 5:00 PM EST/EDT, Monday thru Friday. At that time, it will be requested that you provide the following information:

1. Your name and address
2. The model and serial number
3. The reason for which the unit is to be returned

Once your RA has been issued, you will immediately be provided with an RA number. We will then send an RA package to you by mail. Included in the RA package will be instructions on how to return your unit, multiple copies of the RA and a preprinted return shipping label to be attached to the unit.

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